

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Currently Amended) A neutral beam source comprising:  
a plasma chamber ~~having quartz~~ configured to produce ions;  
a grid assembly ~~having a plurality of ion paths and arranged to receive the ions from the plasma chamber~~;  
a reflective member arranged to receive and neutralize ions directed by the grid assembly; and  
a means for applying a magnetic field to the plasma chamber ~~such that to increase plasma density of the ions in the plasma chamber becomes high~~.
2. (Currently Amended) The neutral beam source as claimed in claim 1, wherein the magnetic field applying means includes an electromagnet arranged around and surrounding the plasma chamber ~~while surrounding the plasma chamber~~.
3. (Original) The neutral beam source as claimed in claim 2, wherein the electromagnet generates the magnetic field having an intensity of about 20 to 60 gauss.
4. (New) The neutral beam source as claimed in claim 1, wherein the grid assembly is connected to a voltage source.
5. (New) The neutral beam source as claimed in claim 1, wherein the grid assembly is configured to accelerate the ions received from the plasma chamber.
6. (New) The neutral beam source as claimed in claim 1, wherein the plasma chamber comprises quartz walls.
7. (New) A neutral beam source comprising:  
a plasma chamber configured to produce ions;  
a grid assembly having a plurality of ion paths and arranged to receive the ions from the plasma chamber;

a reflective member arranged to receive and neutralize ions directed by the grid assembly; and

an electromagnet arranged to increase plasma density of the ions in the plasma chamber.

8. (New) The neutral beam source as claimed in claim 7, wherein the plasma chamber comprises quartz walls.

9. (New) A method of producing a neutral beam comprising:  
providing ions in a chamber;  
applying a magnetic field to the chamber to increase the plasma density of the ions;  
accelerating ions extracted from the chamber to produce accelerated ions; and  
reflecting the accelerated ions off a reflective member to neutralize the accelerated ions.

**Amendments to the Drawings:**

The drawing sheet attached in connection with the above-identified application containing Figure 1 is being presented as a new formal drawing sheet to be substituted for the previously submitted drawing sheet. The drawing figure 1 has been amended. Appended to this amendment is an annotated copy of the previous drawing sheet which has been marked to show changes presented in the replacement sheet of the drawing.

The specific changes which have been made to Figure 1 is to include the legend "PRIOR ART."